

LAPORTE COUNTY  
**BUILDING INSPECTION DEPARTMENT**

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## **HYDRONIC HEATER**

### **Electrical and Mechanical Installation Requirements**

#### **1. Electrical**

- A. The installation shall be per the Manufacturer's Listing & Labeling, the National Electric Code (NEC) and the International Residential Code, any or all pertaining to the installation.
- B. If using OF (underground feeder) cable, do not install it in the corrugated tube with the liquid lines. Most heaters run between 140-150 degrees Fahrenheit and this is the maximum insulation temperature of the cable. When the cable exits the ground, it must be mechanically protected.
- C. Do not use NM or NM-B (Romex) cable to run feed to or to do any wiring at the heater. This cable is only listed for a dry location. Underground conduit is classified as "wet location" and unless the manufacturer classified the heater compartment on the heater differently, it would be classified as a "damp location".
- D. The wire size and over current protection must be sized to handle the required load of the heater (125% of the continuous and 100% of non-continuous load) and compensate for voltage drop that may arise because of the distance from source of power to the heater.
- E. A disconnect is required at the burner if it is more than fifty (50) feet from or out of the line of sight from the source of power. The disconnect type would depend on the circuit. It could be as simple as a toggle switch or a fusible disconnect switch.
- F. An equipment grounding conductor must be installed in the conduit with or part of the cable assembly with the ungrounded (Hot) and grounded (Neutral) conductors. The equipment ground conductor shall be properly terminated at the source (Panel) and solidly terminated to the metal portion of the heater. A ground rod if required by the manufacturer would connect to and the supplement the equipment grounding conductor.

#### **2. Mechanical**

- A. The heater shall be anchored to the foundation with an approved anchoring device per the manufacturer's listing and labeling.
- B. The chimney shall be installed per the manufacturer's recommendations, at the appropriate height and with the manufacturers approved spark arrestor.

Annemarie Polan  
LaPorte County Building Commissioner